AGTEF

MEMORANDUM April 9, 1975

TO:

Lloyd Taylor and Files

FROM:

Ken Mauermann

SUBJECT:

PENALTY ACTION RECOMMENDATION, ACE GALVANIZING, INC.,

NORTH DIVISION, 621 N.W. 41st STREET, SEATTLE, WASHINGTON 98107

INTRODUCTION

On March 17, 1975, a sulphuric acid spill at Ace Galvanizing, Inc., was reported to this office by Mr. Larry Petersen, an Industrial Waste Inspector employed by METRO. His call was prompted by an anonymous tip that Ace Galvanizing at the above address had deliberately dumped the contents of an acid dip tank onto their yard area and that the dumpings had entered a nearby storm drain. A check of storm drainage lines in the area revealed that the line from the catchbasin drains South to the Lake Washington Ship Canal.

METRO notified Tom McCann, DOE Northwest Regional Office, District II Supervisor, of the incident, whereupon the decision was made to split a sample taken from the catchbasin in question by METRO personnel. METRO's analysis, as well as our own analysis of the sample taken from Ace's yard catchbasin, are attached for your use.

As both laboratory reports emphatically reveal, Ace Galvanizing is clearly in violation of all water quality criterias for heavy metals as outlined by our interim Heavy Metals Policy. Also, pH is well outside water quality criteria.

RECOMMENDATION

I visited Ace's Facility on March 18, 1975 and spoke with Mr. Mike Buckland, the Plant Manager. He informed me that the acid was dumped to facilitate the addition of fresh acid (approximately 55 gallons) to one of his dip tanks. Standard recommended procedure for waste acid disposal involves a contract hauler removing the material from the site for reclamation by an outside processor. Mr. Buckland admitted that the failure of his personnel in following established handling procedures resulted in the material entering state waters.

From my investigation, it is concluded that the sulphuric acid spill at Ace Galvanizing's North Division Plant on March 17, 1975, was a result of deliberate dumping of at least part of the contents of a dip tank. With this information, as provided to me by Mr. Buckland, along with the supportive laboratory data from METRO and DOE, I recommend a penalty of \$250.00 be assessed against Ace Galvanizing's North Division Plant.

Correspondence with Ace Galvanizing should be directed to Ace Galvanizing, Inc., 429 South 96th Street, Seattle, Washington 98108, Attention: Mr. D.A. Breiwick.

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LIST OF ENCLOSURES

- 1). Standard DOE complaint form dated March 17, 1975
- 2). DOE laboratory report to Ken Mauermann, Tom McCann, and files from Larry Ashley dated March 21, 1975.
- 3). METRO memorandum to G.D. Farris from L.L. Petersen dated March 24, 1975.
- 4). METRO metals report mg/l, source Ace Galvanizing, Sample date, March 17, 1975.



ENVIRONMENTAL COMPLAINT REPORT FORM

1.	Complaint No.
2.	Date of Complaint 3 1/- 72
3.	Date of Investigation 3-15-75

Name Hong Peterson, METRO	Phone No. 447-6637
Address 410 Court Herrisa	
Scattle Wa 98119	
Date and time complaint first noted	3-17-75 apprex 1500 hrs
Other information	
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LOCATION:	
4. Watercourse Hake Washing	ton Ship Canal
5. Region: Morthwest	
	(2) <u>X</u>
7. County and Town King Seath	CCSectionTownshipRange
7a. Legal	Section Township Range
and the second s	
. POLLUTANT:	
8. Pollutant Source Donderstin	al a
9. Material H. Scy (Sucphice	is acid wick heavy wetals)
10. Quantity at least 50 gall	
Area or miles affected Unions	Swin'
(If dead or dying fish are visi	ble, fill out Nos. X, XI and XII.)
. RESPONSIBILITY:	
11. Person or Entity: Name acc	alvaning Inc. March Divisia Phone No. 782-9
Address <u>6.21</u>	NIO 41 St
•	the, 100 98107
Violator: Confirmed	Suspected Unknown
CAUSE:	
12. Brief Description: Sulphu	ic Cal Lum a dip tank war
deliberation decomposed would	according to be and the compression
personal aci Brainel	LO MENON CHAIN ON THE PRENET OF
are nucleu to the Hale is	askington they canal approximately 1/87
mule to the exection	4

. CLASSIF CATION:	
13. Source: Ground Water Surface Water	ter Flood Control Shoreline
14. Permit Involved: Yes No	
15. If Yes, Type and Number	
1. COMPLAINT RECEIVED BY: Name Jonn McCann	
Time and date 1500 3-17-75	
II. COMPLAINT INVESTIGATED BY:	
Name Ken Manermann	
Action Taken: Panalty action Request	<u>el</u>
7	
. MISCELLANEOUS:	and the control of the state of
Were pictures taken? Yes No We	re samples taken? 🔯 Yes 🔲 No
Individuals and agencies notified	
Witnesses: Name Harry Peterson, METRO	Name John Foundan METRO
Address 410 West Harrison	Address 410 (Dest Harrise
Exattle, 120 98119	Seatley Wa. 98119
Attachments	
and the second of the second o	
FISH KILL	
Estimated number of dead fish Estima	ted percent scrapfish
Predominant species and size	
. SUSPECTED AGENT OR REASON FOR KILL	
Agent	
Describe effects	
Action taken	
I. ADDITIONAL INFORMATION:	

CHECK
INFORMATON
FOR ACTION
PERMIT
OTHER

	March 21. 1975	* *
SUBJECT:	ACE GALVENIZING, NORTH PLANT, BALLARD	
FROM:	Laurence Ashley	
то:	Ken Mauermann, Thomas McCann, Files	

State of Washington **De**partment **of** Ecology



A water sample dated 3-17-75, from an outfall from Ace Galvenizing, was delivered to the laboratory by Metro personnel for pH and metal determinations.

The findings:

		Soluble	Concent	ration	(mg/l)			
рН	Cadmium	Lead	Copper	Zinc	Chromium	Nickel		
1.7	(10.0)	9.0	7.0	19,00		4.40		

LA:js 3-21-75 dt



metro memo

March 24, 1975

TO:

G. D. Farris

FROM:

L. L. Petersen

SUBJECT: Spill at Ace Galvanizing

On March 17, 1975, Metro received an anonymous telephone call stating that Ace Galvanizing discharged a tank of wastes into the Lake Washington Ship Canal. John Lowdon and I inspected the shoreline of the ship canal below Ace's property, but observed no discoloration in the water except for a minor oil slick.

Next we inspected Ace's yard and located a recent acid dump by an outside surfuric acid tank. Pieces of metal on the ground around the tank were still fizzing and bubbling. This waste acid solution was followed across the yard to a catch basin which drains into the Lake Washington Ship Canal.

Mr. Mike Buckland, Ace Galvanizing Plant Manager, was confronted about the dumpage, where he admitted disposing of some of the sulfuric acid from the outside tank onto the ground. He then added a new 55 gallon drum of sulfuric acid to the tank.

A sample was collected from the catch basin at 2:10 p.m., which had a pH of 2.1. Later that afternoon the sample was split with the DOE for pH and heavy metal analysis.

Metro's heavy metals results are shown below in ppm:

<u>Time</u> 2:10 p.m.

 $\begin{array}{c|c}
\underline{\mathbf{p}} \\
2.1 \\
\hline
9.6 \\
\hline
1.
\end{array}$

 $\left(\frac{\overline{Cu}}{6.1}\right)$

20,000

LLP:dsp

METRO
METALS REPORT mg/1

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55 PH12 10 PH2.1 1CH BASIN	9.6	1.2	6.1	3.0	34	20,000	PRON	<u>Co</u> !	م وی م	٧٠ ١٨	yand	
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TO:

Files

FROM:

H.W. Burwell

SUBJECT:

STAFF EVALUATION

DATE:

September 23. 1974

APPLICANT:

ACE GALVANIZING, INC.

429 South 96th Street

Seattle, WA

Activity or Production: Galvanizing

Receiving Water: Storm ditch tributary to unnamed stream tributary to the Duwamish River near the Hammond-Schmitt Road, South Park

Applicable Water Quality Standards: Class A

Background:

The applicant operates a hot dip galvanizing facility in an unsewered industrial area in unincorporated King County. The resulting effluent contains significant quantities of zinc and cyanide. The cyanide results from rinsewater associated with a cyanide dip tank.

The industry has a past record of water quality violations related to quenching of hot galvanized parts by hosing over a catchbasin.

Effluents consist of rinsewater from metal cleaning operation, minor amounts of compressor cooling water and the quench water have a combined flow of 6,000 gallons per day. Sanitary wastes are treated by septic tank and drainfield.

Sanitary sewer service is available to residences within the Seattle City limits several blocks to the north of this industrial park. The Rainier Vista intercoptor to be constructed by Metro during 1975 will follow the West Marginal Way freeway to the east of this industrial park. The applicant and other industries have been requested to form a ULID to provide sanitary sewer service.

Evaluation:

Connection to the sanitary system will restrict discharges at levels achievable by inplant process control and pretreatment. If connection and pretreatment do not occur, the next approach should be the disposal of zinc containing effluent by drainfield limiting effluent to drinking water standard (5.0 mg/l) and elimination or destruction of cyanide effluent prior to disposal to surface waters with a limit of 0.03 mg/l as cyanide. Ref: "Interim Effluence

Washington
Department
of Ecology

Npdes Application No. WA-002225-0

State of

Guidance For NPDES Permits", U.S. Environmental Protection Agency.

Recommendations:

- 1. A NPDES permit be issued that limits the concentration of zinc, cyanide, and oils with a time schedule to eliminate the discharge of pollutants.
- 2. The applicant and other polluting industries be ordered to form a ULID to construct a sanitary sewer collection system.

HWB:mk 9-23-74 dt

This pure applicant was fined by the State (DOE) Goodischarging w/o permt.
Pf they are ever the issued a permit it will be win a long time become they are hardly have to been instalp process treatment

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